

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Robert Finney et al.  
Filed : November 13, 2003  
For : LPAAT- $\beta$  INHIBITORS AND USES THEREOF  
Docket No. : 200144.405D1  
Date : November 13, 2003

Mail Stop Patent Applications  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicants wish to make known to the Patent and Trademark Office the references set forth on the attached Forms PTO-1449. This application is a divisional and relies, under 35 U.S.C. § 120, on the earlier filing date of prior Application No. 10/236,084, filed September 6, 2002; which is a continuation of Application No. 09/984,888, filed October 31, 2001. The references listed on the attached Forms PTO-1449 were submitted to and/or cited by the Patent and Trademark Office in these prior applications and, therefore, are not required to be provided in this application. If the Examiner wishes, copies will be provided upon request. However, reference BH (WO 96/04281) cited on page 2 of the attached Forms PTO-1449, was not previously made of record and copy is enclosed herewith.

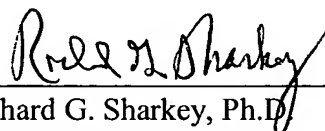
Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Applicants believe this Information Disclosure Statement has been timely filed, however, the Director is authorized to charge any fee due by way of this Information Disclosure Statement to our Deposit Account No. 19-1090.

Respectfully submitted,

Seed Intellectual Property Law Group PLLC



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Richard G. Sharkey, Ph.D.  
Registration No. 32,629

RGS:ljt

Enclosures:

Forms PTO-1449 (6 Sheets)  
Cited Reference (1)

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V431765

FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 200144.405D1	APPLICATION NO.
<b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)		APPLICANTS Robert E. Finney et al.	
		FILING DATE October 13, 2003	GROUP ART UNIT

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,702,717	12/30/97	Cha et al.	424	425	
	AB	6,288,288	09/11/01	Henkin et al.	544	197	
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AK	DE 2104232 A	09/1971	Germany		
	AL	DE 2311237 A	09/1974	Germany		
	AM	DE 2833582 A	02/1979	Germany		
	AN	EP 084 767 A	08/1983	EPO		
	AO	EP 096 189 A	12/1983	EPO		

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AP	Britten and Kohne, "Repeated Sequences in DNA," <i>Science</i> 161(3841): 529-540, August 9, 1968.
	AQ	Bursten et al., "Interleukin-1 Rapidly Stimulates Lysophosphatidate Acyltransferase and Phosphatidate Phosphohydrolase Activities in Human Mesangial Cells," <i>Journal of Biological Chemistry</i> 266(31): 20732-20743, November 5, 1991.
	AR	Bursten et al., "Lipid A activation of glomerular mesangial cells: mimicry of the bioactive lipid, phosphatidic acid," <i>American Journal of Physiology</i> 262(2): C328-C338, February 1992.

EXAMINER

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\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	BB	JP 01-261307 A	06/1989	Japan		
	BC	JP 11-158073 A	06/1999	Japan		
	BD	WO 91/11465	08/1981	WIPO		
	BE	WO 93/17002	09/1993	WIPO		
	BF	WO 00/43369	07/2000	WIPO		
	BG	WO 01/47897	07/2001	WIPO		
	BH	WO 96/04281	02/15/96	WIPO		

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	BI	Curd et al., <i>J. Chem. Soc.</i> 160-162, 1947. Database Crossfire Beilstein, Database Accession No. 49402.
	BJ	Cuthbertson et al., <i>J. Chem. Soc.</i> , 561-563, 1948. Database Crossfire Beilstein, Database Accession No. 35104, 284744.
	BK	Degussa, ZA 6707089, 1968. Chemical Abstracts 70:57905, 1969. And Database Crossfire Beilstein, Database Accession No. 1158601.
	BL	Eberhardt et al., "Human Lysophosphatidic Acid Acyltransferase," <i>Journal of Biological Chemistry</i> 272(32): 20299-20305, August 8, 1997.
	BM	English, D., "Phosphatidic acid: A lipid messenger involved in intracellular and extracellular signaling," <i>Cell Signal</i> 8(5): 341-347, 1996.
	BN	Fong and Engleman, "Dendritic Cells in Cancer Immunotherapy," <i>Annual Review of Immunology</i> 18: 245-273, 2000.
	BO	Freiberg et al., <i>J. Prakt. Chem.</i> 327(3): 471-478, 1985. Chemical Abstracts 104:68822.

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					YES	NO
	CB					

**OTHER PRIOR ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

	CC	Goi et al., <i>Yuki Gosei Kagaku Kyokaishi</i> 18: 332-336, 1960. Database Crossfire Beilstein, Database Accession No. 895595.
	CD	Hoess and Abremski, "The Cre-lox Recombination System," <i>Nucleic Acids and Molecular Biology</i> 4: 99-109, 1990.
	CE	Imamura et al, "Induction of <i>in vitro</i> tumor cell invasion of cellular monolayers by lysophosphatidic acid or phospholipase D," <i>Biochemical and Biophysical Research Communications</i> 193(2): 497-503, June 15, 1993.
	CF	Kester, M., "Platelet-Activating Factor Stimulates Phosphatidic Acid Formation in Cultured Rat Mesangial Cells: Roles of Phospholipase D, Diglyceride Kinase, and De Novo Phospholipid Synthesis," <i>Journal of Cellular Physiology</i> 156: 317-325, 1993.
	CG	Kim et al., <i>Journal of the Korean Chemical Society</i> 42(1): 118-121, 1998. Chemical Abstracts 128:282822.
	CH	Kim et al., <i>Journal of the Korean Chemical Society</i> 43(4): 497-499, 1999. Chemical Abstracts 131:286468.
	CI	Köhler and Milstein, "Continuous cultures of fused cells secreting antibody of predefined specificity," <i>Nature</i> 256: 495-497, August 7, 1975.
	CJ	Kotova-kilot et al., <i>TR. Mosk Khim.-Tekhnol. Inst.</i> 61: 157-159, 1970. Chemical Abstracts 73:98911.
	CK	Kume and Shimizu, "cDNA Cloning and Expression of Murine 1-Acyl-sn-glycerol-3-phosphate Acyltransferase," <i>Biochemical and Biophysical Research Communications</i> 237(3): 663-666, August 28, 1997.
	CL	Langalia et al., <i>J. Indian Chem. Soc.</i> 59(9): 1099-1101, 1977. Chemical Abstracts 98:89321.

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						YES	NO
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<b>OTHER PRIOR ART</b> (Including Author, Title, Date, Pertinent Pages, Etc.)							
	DC	Laurent et al., "Justus Liebigs Ann. Chem 60: 846, 1970. Database Crossfire Beilstein, Database Accession No. 33800.					
	DD	Leung et al., "Molecular Cloning of Two Alternatively Spliced Forms of Human Phosphatidic Acid Phosphatase cDNAs that Are Differentially Expressed in Normal and Tumor Cells," <i>DNA and Cell Biology</i> 17(4): 377-385, April 1998.					
	DE	Losman et al., "Baboon anti-idiotypic antibodies mimic a carcinoembryonic antigen epitope," <i>Int. J. Cancer</i> 46(2): 310-314, August 15, 1990.					
	DF	Martin et al., "Increased concentrations of phosphatidate, diacylglycerol and ceramide in <i>ras</i> - and tyrosine kinase ( <i>fps</i> )-transformed fibroblasts," <i>Oncogene</i> 14(13):1571-1580, April 3, 1997.					
	DG	Metha et al., <i>J. Inst. Chem</i> (India) 59(4): 183-185, 1987. Chemical Abstracts 109:6485.					
	DH	Miller and Rosman, "Improved Retroviral Vectors for Gene Transfer and Expression," <i>BioTechniques</i> 7(9): 980-EOA, October 1989.					
	DI	Moolenaar, W.H., "Lysophosphatidic Acid, a Multifunctional Phospholipid Messenger," <i>Journal of Biological Chemistry</i> 270(22): 12949-12952, June 2, 1995.					
	DJ	Neicheva et al., <i>Journal of Planar Chromatography-Modern TLC</i> 12(2): 145-149, 1999. Chemical Abstracts 131:28881.					
	DK	Orlandi et al., "Cloning immunoglobulin variable domains for expression by the polymerase chain reaction," <i>Proc. Natl. Acad. Sci. USA</i> 86(10): 3833-3837, May 1989.					
	DL	Rajnani et al., <i>J. Inst. Chem. (India)</i> 49(4): 222-224, 1977. Chemical Abstracts 88:37757.					
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						YES	NO
	EB						
<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	EC	Rajnani et al., <i>J. Inst. Chem.</i> (India) 48(5): 254-255, 1976. Chemical Abstracts 86:189869.					
	ED	Rao et al., <i>J. Inst. Chem.</i> (India) 54(5): 199-200, 1982.					
	EE	Rizzo et al., "The Recruitment of Raf-1 to Membranes Is Mediated by Direct Interaction with Phosphatidic Acid and Is Independent of Association with Ras," <i>Journal of Biological Chemistry</i> 275(31): 23911-23918, August 4, 2000.					
	EF	Sauer, B., "Inducible Gene Targeting in Mice Using the Cre/lox System," <i>Methods: A Companion to Methods in Enzymology</i> 14(4): 381-392, April 1998.					
	EG	Schreurs et al., "Dendritic Cell-Based Vaccines: From Mouse Models to Clinical Cancer Immunotherapy," <i>Critical Reviews in Oncogenesis</i> 11(1): 1-17, 2000.					
	EH	Sharp et al., "Viral DNA in Transformed Cells. I. A Study of the Sequences of Adenovirus 2 DNA in a Line of Transformed Rat Cells Using Specific Fragments of the Viral Genome," <i>J. Mol. Biol.</i> 86(4): 709-726, July 15, 1974.					
	EI	Stamps et al., "A human cDNA sequence with homology to non-mammalian lysophosphatidic acid acyltransferases," <i>Biochemical Journal</i> 326:455-461, September 1, 1997.					
	EJ	Sutton, W.D., "A crude nuclease preparation suitable for use in DNA reassociation experiments," <i>Biochimica et Biophysica Acta</i> 240(4): 522-531, July 29, 1971.					
	EK	Unishi et al., <i>Nippon Kagaku Kaishi</i> 1:40-44, 1987. Chemical Abstracts 107:134287.					
	EL	Wakabayashi et al., <i>Nippon Dojo-Hiryogaku</i> 41(5): 193-200, 1970. Chemical Abstracts 73:108869.					
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						YES	NO
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	FC	West et al., "Cloning and Expression of Two Human Lysophosphatidic Acid Acyltransferase cDNAs That Enhance Cytokine-Induced Signaling Responses in Cells," <i>DNA and Cell Biology</i> 16(6): 691-701, June 1997.					
	FD	Wetmur and Davidson, "Kinetics of Renaturation of DNA," <i>Journal of Molecular Biology</i> 31(3): 349-370, February 14, 1968.					
	FE	Xu et al, "Lysophospholipids activate ovarian and breast cancer cells," <i>Biochemical Journal</i> 309: 933-940, August 1, 1995.					
	FF						
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